

**SJVN ARUN-3 POWER DEVELOPMENT COMPANY PVT. LTD.**

(A Subsidiary of SJVN Ltd. Registered in Nepal)



**LOWER ARUN HYDRO ELECTRIC PROJECT, NEPAL**  
**TENDER DOCUMENT**  
**[COMPETITIVE BIDDING]**

**TENDER No.: PCD-2/2021**

**TENDER DOCUMENT FOR “HIRING OF CONSULTANCY SERVICES FOR HYDRAULIC TRANSIENT ANALYSIS/ STUDY OF TANDEM OPERATING SYSTEM (TOS) ON NUMERICAL MODEL AND PROPOSING REGULATION/CONTROL CONCEPT FOR TOS FOR ARUN-3 HEP (900MW) AND LOWER ARUN HEP (679 MW), DISTT. SANKHUWASABHA & BHOJPUR, NEPAL”**

**Tumlingtar**

**August, 2021**

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एसजेवीएन अरूण-3 पाँवर डवलपमेंट कंपनी प्रा. लि.  
**SJVN Arun-3 Power Development Company Pvt. Ltd.**

(एसजेवीएन की पूर्ण स्वामित्व वाली अधीनस्थ कंपनी)

(A wholly owned subsidiary of SJVN)

900 मेगावाट अरूण-3 जलविद्युत परियोजना  
**900 MW Arun-3 Hydro Power Project**

Regd. No.: 111808/69/070



**PRESS NOTICE**

SJVN Arun-3 Power Development Company (P) Ltd. (SAPDC), Tumlingtar, Nepal (A Subsidiary of SJVN, a joint venture of GoI & Govt. of H.P.) having Registered office at Kathmandu, Nepal invites proposals/bids in sealed envelopes from eligible Bidder/Agency/Firm/Consultant having Registered office in Nepal/India for carrying out assignment of **“Hiring of Consultancy services for Hydraulic Transient Analysis/ Study of Tandem Operating System (TOS) on Numerical Model and Proposing Regulation/Control Concept for TOS for Arun-3 HEP (900MW) and Lower Arun HEP (679 MW), Distt. Sankhuwasabha & Bhojpur, Nepal”**

Last date for submission of bids is 20.09.2021 upto 1500 hrs. Sealed envelope is to be submitted by Post/courier or physically in the SAPDC office at Tumlingtar, Distt. Sankhuwasabha, Nepal or alternatively at SAPDC office, House No. 3, Swagat Marg, Ward No. 1, Lokanthali, Madhyapur, Kathmandu.

The Bidding Documents can be downloaded from websites <http://sjvn.nic.in/tender.htm>, <http://www.sapdc.com.np>. & [www.eprocure.gov.in](http://www.eprocure.gov.in) Amendment(s), if any, shall be issued only on above websites.

Sd/-

**Chief Engineer (P&C),  
Arun-3 HEP, SAPDC  
Satluj Bhawan, Arun Sadan,  
Tumlingtar Distt. Sankhuwasabha, Nepal  
Ph. +977-29-575154, Mob.:- +977-9852058517,  
e-mail Address: [pnc.lahep@gmail.com](mailto:pnc.lahep@gmail.com)**

**SECTION-I**

**NOTICE INVITING TENDER  
(NIT)**

एसजेवीएन अरूण-3 पावर डवलपमेंट कंपनी प्रा. लि.  
**SJVN Arun-3 Power Development Company Pvt. Ltd.**

(एसजेवीएन की पूर्ण स्वामित्व वाली अधीनस्थ कंपनी)

(A wholly owned subsidiary of SJVN)

900 मेगावाट अरूण-3 जलविद्युत परियोजना  
**900 MW Arun-3 Hydro Power Project**

Regd. No.: 111808/69/070



**Ref. No.:** SAPDC/P&C/LAHEP/PCD-2/2021-04

**Dated:** 29.08.2021

**NOTICE INVITING TENDER (NIT)**

1. SJVN Arun-3 Power Development Company (P) Ltd. (SAPDC), Tumlingtar, Nepal (A Subsidiary of SJVN, a joint venture of GoI & Govt. of H.P.) having Registered office at Kathmandu, Nepal invites sealed proposals/bids in single stage two envelope bid system from eligible Bidder/Agency/Firm/Consultant having Registered office in Nepal/India for the following:

<b>1.</b>	<b>Name of Work:</b>	Hiring of Consultancy services for Hydraulic Transient Analysis/ Study of Tandem Operating System (TOS) on Numerical Model and Proposing Regulation/Control Concept for TOS for Arun-3 HEP (900MW) and Lower Arun HEP (679 MW), Distt. Sankhuwasabha & Bhojpur, Nepal.
<b>1.1</b>	<b>Tender No.</b>	PCD-2/2021
<b>1.2</b>	<b>Time Allowed for Completion of whole of the works</b>	Six(06) months to be reckoned from the date of issuance of Letter of Acceptance or Receipt of inputs(Design & Drawings) from SAPDC whichever is later.
<b>1.3</b>	<b>Estimated Cost</b>	<b>NPR 4.32 Crore plus Applicable Taxes.</b>
<b>1.4</b>	<b>Cost of Tender Document (Non-refundable)</b>	NPR 3,000/- in the form of Manager's cheque (issued by a "A" Class Nepalese Bank shall only be acceptable) payable at Khandbari, Nepal in favour of <b>SJVN Arun-3 Power Development Company Pvt. Ltd.</b> Alternatively, payment against Cost of Tender Document may be made directly in the bank account of SAPDC as mentioned below: NPR Account Details: Everest Bank Limited Name: SJVN Arun-3 Power Development Company Pvt. Ltd. Acc. No. 00800105200477 Swift Code: EVBLNPKA <b>Bidder/Agency/Firm/Consultant are advised and shall be responsible to ensure the receipt of net amount (excluding bank transfer charges) in the account before last date of submission of bids.</b>

1.5	<b>Earnest Money Deposit/Bid Security</b>	NPR 8,64,000/- only (to be submitted as per clause no. 4.0, Section-IV, Instructions to Bidder(ITB)).  However, if Bidder/Agency/Firm/Consultant opt for submission of EMD directly in the bank account of SAPDC as per Clause No. 4.0 of Instruction to Bidder(ITB),Section-IV, then the proof of same shall be submitted alongwith the Proposal.
1.6	<b>Last date &amp; time for submission of Proposal (s).</b>	20.09.2021 upto 1500 Hours.
1.7	<b>Time and Date for opening of Proposal(s). part-1 (Techno-commercial bid).</b>	22.09.2021 at 1600 Hours.
1.8	<b>Time and date of opening Financial Bid(s).</b>	To be intimated separately on websites only.
1.9	<b>Bid validity period</b>	The bids shall remain valid for acceptance for a period of 180 days from the date of opening of Techno-Commercial Bids.
1.10	<b>Place of submission bids</b>	<b>Chief Engineer (P&amp;C), Arun-3 HEP, SAPDC, Satluj Bhawan, Arun Sadan, Tumlingtar, Distt. Sankhuwasabha, Nepal Ph. +977-29-575154, Mob.: +977-9852058517</b>  <b>OR</b> <b>O/o Company Secretary, Arun-3 HEP, SAPDC House No. 3, Ward No. 1, Swagat Marg, Madhyapur (Thimi) Municipality, Lokanthali, Kathmandu. Ph. +977-1-6632030, Mob.: +977-9819822967</b>
1.11	<b>Place of opening bids</b>	Chief Engineer (P&C) SAPDC, Arun-3 HEP, Satluj Bhawan, Arun Sadan, Tumlingtar, Distt. Sankhuwasabha, Nepal Ph. +977-29-575154, Mob.:+ 977-9852058517
1.12	<b>Authority/Officer inviting Tender</b>	Chief Engineer (P&C) SAPDC, Arun-3 HEP, Satluj Bhawan, Arun Sadan, Tumlingtar, Distt. Sankhuwasabha, Nepal Ph. +977-29-575154, Mob.:+ 977-9852058517 e-mail Address: <a href="mailto:pnc.lahep@gmail.com">pnc.lahep@gmail.com</a>

2. The bidding document containing the details of submission requirement, brief scope of works/services, General Conditions of Contract etc. can be downloaded from websites <http://sjvn.nic.in/tender.htm>, [www.eprocure.gov.in](http://www.eprocure.gov.in) & <http://www.sapdc.com.np>. The bidders may submit their bid either by post/courier or physically in the tender box kept as per Sr. No. 1.10 herein-above prior to the last date for submission of bids. Bids of those Bidders who have submitted the requisite tender document fee and EMD acceptable to Employer only shall be considered for bid evaluation.

3. Through this tender, SJVN Arun-3 Power Development Company Private Limited (SAPDC) intends to appoint eligible consultant having Registered office in India/Nepal for carrying out assignment of Consultancy services for Hydraulic Transient Analysis/ Study of Tandem Operating System (TOS) on Numerical Model and Proposing Regulation/Control Concept for TOS for Arun-3 HEP (900MW) and Lower Arun HEP (679 MW), Distt. Sankhuwasabha & Bhojpur, Nepal.
4. At any time before the submission of bids, SAPDC may modify/amend the bidding documents and extend the last date of submission/opening of the Proposal and any other key dates by issuing a corrigendum/addendum and such corrigendum/addendum to this notice as well as to the bidding document shall be available on the aforesaid websites only. As such the Bidders are advised to visit the above websites regularly.
5. The prospective Bidders are advised to visit the Arun-3 HEP project before submission of their bids. The Bidders shall bear all costs associated with the site visit.
6. Arun-3 Hydro Electric Project (900 MW) is located in Sankhuwasabha district, Nepal. Corporate office of SAPDC is located at Tumlingtar. Dam site and Power house sites are located in Phaksinda (near Num) and Diding respectively which are 70 km from Tumlingtar. Nearest Railway station is Jogbani, Bihar approx. 300 km from sites and nearest airport is Tumlingtar, Nepal. Lower Arun Hydro Electric Project (679 MW) lies in the Sankhuwasabha & Bhojpur district, Nepal.
7. SAPDC reserves the right to cancel the bidding process at any time without assigning any reason.
8. For any enquiry/clarification etc. Bidders may contact at the following address:

**For & on the behalf of SAPDC,**

**Sd/-**

**Chief Engineer (P&C),  
Arun-3 HEP, SAPDC  
Satluj Bhawan, Arun Sadan,  
Tumlingtar Distt. Sankhuwasabha, Nepal  
Ph. +977-29-575154, Mob.:- +977-9852058517,  
e-mail Address: [pnc.lahep@gmail.com](mailto:pnc.lahep@gmail.com)**

## **SECTION-II**

### **BRIEF DESCRIPTION OF PROJECTS**



## **Brief Description Of Projects:-**

**1.0 Arun-3 HEP (900 MW):** The Arun-3 hydroelectric project (900MW) is being developed by SAPDC, a wholly owned subsidiary of SJVN Ltd. on the Arun River in Sankhuwasabha District of Province 1, Nepal. The project is in advance stage of construction envisaging the construction of a 80 m high concrete gravity Dam, 11.76 km-long, 9.5m dia. horse-shoe shape headrace tunnel, 155 m deep 24m dia. restricted orifice open to sky surge shaft, 415m & 385m long two steel-lined pressure shafts bifurcating into four branch pressure shafts, an underground Valve Chamber of size 83.7m (L) X 12m (W) X 21m (H) for housing 2 nos, 5.5 m diameter butterfly valves, an underground powerhouse of size 179.50 m (L) X22.5 m (W) X49.5m ( H), along with a transformer hall cavern of size 153.94 m (L)X 16 m (W)x 23 m ( H ). The powerhouse of the project will be equipped with four vertical Francis turbine units. The rated capacity of each turbine generator is 225MW. The project has a gross head of 308m and a design head of 286.21m. The design discharge of project is 344.68m<sup>3</sup>/sec. **The water from the powerhouse after generation will be diverted to a tail pond through a 399.208 m long, 10m dia tail race tunnel. Tail pond shall be provided with intake structure for diverting the water to Lower Arun Hydro Electric Project.**

**1.1 Lower Arun HEP (679 MW):** Lower Arun hydroelectric project-(LAHP) 679 MW, lies in the Sankhuwasabha and Bhojpur Districts of Nepal. The project is envisaged as a downstream extension of Arun-3 Hydroelectric project utilizing 344.68m<sup>3</sup>/sec of design discharge available at tail race outfall of Arun-3 HEP . The water coming out after generation from Arun-3 power station will be tapped from Arun-3 tail race pond into the Intake of Lower Arun HEP which shall be constructed as a part of Arun-3 HEP. Both the power stations are to be operated in tandem similar to **SJVN's Nathpa Jhakri (1500 MW) & Rampur HPS (412 MW) tandem system(In Himachal Pradesh,India)\*LAHEP** envisages the construction of ± 15 km-long, 9.5 m dia. horse-shoe shape headrace tunnel (dia to be optimised at later stage), ± 180m deep restricted orifice open to sky surge shaft, two steel-lined pressure shafts bifurcating into four branch pressure shafts , a butterfly Valve Chamber 83 m (L) x 12 m (W) x 21 m (H), a surface powerhouse, measuring 179.5m in length, 22.5m in width and 49.5m in height, along with a transformer hall. In order to facilitate joint operation of the two projects the number of generating units in Lower Arun HEP has been kept same as that of Arun-3 HEP i.e. four (4). The rated capacity of each turbine generator is 170 MW. The powerhouse has a gross head of 233 m and a design head of 217.20 m.

*\*The salient features of LAHEP are tentative as of date.*

**SECTION-III**

**BRIEF OBJECTIVE**

**AND**

**DETAILED SCOPE OF**  
**WORKS/SERVICES**

## **BRIEF OBJECTIVE & DETAILED SCOPE OF WORKS/SERVICES**

### **1. BRIEF OBJECTIVE:-**

#### **1.0 OBJECTIVES:-**

Lower Arun HEP will draw water directly from tail trace pond of Arun-3 HEP Plant. It will run in tandem with Arun-3 HEP. In order to ensure perfect tandem operation of Arun-3 and Lower Arun Hydropower plants, a reliable operating system needs to be devised through numerical simulation.

#### **2.0 OPERATING SCENARIO OF TOS:-**

##### **A. Standalone Operation of Arun-3 HEP:-**

Till commissioning of Lower Arun HEP (LAHEP) or in case of shutdown of all units (reasons related to equipment / structure etc.) of LAHEP after its commissioning, Arun-3 HEP will be operated in standalone mode with the following operation of Tandem system: -

- a) TRT Regulating Gates in Open position
- b) Intake Gate of LAHEP in Closed position

##### **B. Normal TOS:-**

Under normal circumstances (i.e. all unit of both the plants are available, healthiness of TRT regulating gates, availability of water and scheduling instruction from the grid), N:N operation of unit(s) shall be operated under TOS with the Hydraulic system settled to steady state (negligible oscillation). N represents number of units.

##### **C. TOS in differential mode:-**

If the available machine at LAHEP is/are less than number of machines available at Arun-3 HEP, TOS in differential mode will be active with the adjustment of flow in following priorities: -

- a) Overload operation of running units corresponding to the differential flow.
- b) Opening operation of TRT Regulating gates in case of differential discharge corresponding to LAHEP machine's overload capacity, provided cushion of Arun-3 HEP reservoir is exhausted.

#### **3.0 DETAILED SCOPE OF WORKS/SERVICES:-**

Hydraulic Transient Analysis to be performed and accordingly, control / regulating concept to be proposed, taking cognizance of operating scenario illustrated above at **Clause No. 2.0** (Section-III, Brief Objectives under Heading of Operating Scenario of TOS) and considering safety measures of Civil structures.

The Consultant's scope of work shall be, but not limited to the following principal tasks:

- i) To perform Hydraulic Transient Study of Arun-3 HEP in tandem for comparison of the results vis-a-vis study performed earlier for standalone operation. Load acceptance / rejection criteria considered for Arun-3 HEP including design parameters shall be provided as per **Clause No. 3.1** below (Section-III, Detailed Scope Of Works/Services under Heading of Specific Inputs To Be Provided By SAPDC/SJVN LTD) .
- ii) Determination of a reliable operating system for the generating units of the two stations, able to ensure tandem operation at all times but also capable in the event of any kind of operating failure or error of ensuring that the power stations can be shut down quickly with no risk of any damage to the civil works or equipment. Numerical simulations will allow the transient hydraulic behaviour of the system to be analysed as a function of the regulation parameters, and thus allow their optimization. The design of the hydraulic structures between the Arun-3 and the Lower Arun

Plants will be appraised and amendments will be proposed, if need be. **A risk assessment will form part of the consultancy.**

- iii) Reviewing the estimates of short term storage volume required between the two stages, taking into account the need in untoward operating circumstances to prevent damage to the machines, avoid the loss of water by undue spillage and to ensure safe flow conditions in the river valley further downstream (i.e., sudden increases of flow which could endanger persons in or near the river).
- iv) Checking the safety of the Lower Arun pressure tunnel in the theoretically possible but highly unlikely event of it emptying rapidly due to failure to shut down the Lower Arun HEP valves/units should the inflow from HRT of Arun-3 HEP be interrupted (or, for instance, due to failure of a penstock further downstream); in which case the lining of the suddenly empty tunnel could be subjected to the full external ground water hydro static pressure.
- v) Review the transient analysis (criteria, basic data, analysis method and conclusions with regard to design) of the waterway system of the Arun-3 HEP (Being done by SAPDC), and advising on the results obtained, and suggestions for additional computations.
- vi) Hydraulic regulation during differential TOS to be studied and to propose the correct equation of orifice flow for TRT Regulating gates under all three river water scenario (i.e. no discharge in river, partial submergence of TRT regulating gates and TRT gates in fully submerge condition). Tail rating curve of Arun-3 HEP will be provided.
- vii) Control strategy / regulation concept of TOS between Arun-3 HEP & LAHEP to be proposed considering the hydraulic oscillations of water body, machine characteristics, regulating gate characteristics and spill tunnel of LAHEP HRT. Optimisation of regulation strategy for minimising the transient in open water surfaces of water conductor system of LAHEP (Surge shaft, Spill tunnel, Tail pond etc.).
- viii) Review / confirmation of overt level of intake of LAHEP against the down surge in tail pond in worst case transient and review / optimisation of invert levels of main spill tunnel.
- ix) Suggestions related to provision of Trash Rack in the intake gate for head loss optimisation.
- x) **Additional study cases (transient / steady state) jointly to be decided between SAPDC& consultant**

**Note:** While performing Hydraulic transient study for TOS, the hydraulic transient boundary condition of Arun-3 HEP to be considered.

### **3.1 SPECIFIC INPUTS TO BE PROVIDED BY SAPDC/SJVN LTD.:-**

If required for the completion of study, the consultant may visit NJHPS – RHPS(Himachal Pradesh, India) complex /SJVN office Shimla to understand / take first-hand information about operation of TOS of the scale similar to Arun-3 HEP – LAHEP TOS. SAPDC/SJVN shall facilitate discussion / site visit / site access to prospective consultant. All the cost & expenses incidental to such site visit / discussion shall be to the account of consultant and SAPDC/SJVN shall not bear any liability whatsoever on such cost & expenses.

SAPDC shall make available to the Consultant, for the purpose of services, free of any charge, all reports and data available with SAPDC as per the following details:

- (i) Load acceptance / rejection criteria considered for Arun-3 HEP including design parameters obtained from already conducted Hydraulic transient study.
- (ii) Drawings of water conductor system of Arun-3 HEP.
- (iii) Opening/closing time for guide vanes of Arun-3 HEP Hydro-electric Project.
- (iv) Discharging capacity of turbine at a given head of 100% opening of Arun-3 HEP.
- (v) Efficiency of turbine & generator at 50%, 75% & 100% load for Arun-3 HEP.
- (vi) Drawings of water conductor system of Lower Arun Hydro-electric Project.
- (vii) Opening/closing time for guide vanes of Lower Arun Hydro-electric Project.

- (viii) Discharging capacity of turbine at a given head for 100% opening of Lower Arun HEP.
- (ix) Efficiency of turbine & generator at 50%, 75% & 100% load for Lower Arun HEP.
- (x) **Any other input required by the consultant (list to be submitted along with bid proposal).**

### **3.2 RESPONSIBILITY OF CONSULTANT:-**

- a) Consultant shall conduct all activities as per the Scope of Works with due care and diligence, in accordance with the contract and with the skill and care expected from a competent provider of services, or in accordance with best industry practices.
- b) The deliverables will be accepted only if they conform to the specifications as laid down in this Scope of Work. Deliverables of the Consultant will be considered to be formally accepted only after the Engineer-In-Charge (EIC) SAPDC communicates so in writing.
- c) Consultant shall be responsible for timely provision of all resources, information, a decision making under its control that are necessary to reach an agreed finalized assignment within the work completion schedule.
- d) In particular, Consultant shall provide and employ only such personnel who are skilled and experienced in their respective areas and Supervisory staff who are competent to adequately supervise the work at hand.
- e) Any queries regarding the deliverables will have to be answered by the Consultant within five (5) working days.
- f) The Consultant will share all intermediate documents, drafts, reports and any other item related to this assignment.
- g) Any activity though not specifically covered in the document but required for achieving the Scope of Work/ Key deliverables shall be deemed to be included by SAPDC in the Scope of Works.

### **3.3 SPECIFIC REQUIREMENT/ CONDITIONS:-**

- (i) Studies of Civil aspects of tandem operation shall also be made on a hydraulic model by SAPDC separately through other agency. Some of the conclusion/recommendations of consultants may also be put to test on this model. Consultant shall provide any clarification, explanations and references, if required, during the course of such hydraulic model tests even after completion of studies.
- (ii) The Consultant shall perform all tasks foreseen under **para 3.0** (Section-III, Detailed Scope Of Works/Services), including preparation of deliverables as described **under para 3.4 & 3.5 Reports and Time Schedule** (Section-III, Detailed Scope Of Works/Services), with high professional skills, based on its experience. The Consultant shall perform the work in an efficient manner by assigning appropriate personnel, utilizing appropriate means of communication and through other appropriate means, without compromising the thoroughness or quality of the work.
- (iii) The consultant shall provide the details of following minimum key experts besides other team members for completing the Scope of Works relating to the work:
  - a) Team Leader – The expert should have experience of at least one Consultancy Service of similar nature(i.e Study/Analysis of Tandem operations System in hydropower projects).

The Consultant shall provide/submit the details/profile as mentioned above of all team members which will be associated for the assignment to Engineer-In-Charge before start of work.

### **3.4 REPORTS AND TIME SCHEDULE:-**

The Consultant shall work closely together with the SAPDC/SJVN design team, and shall develop the following outputs:

#### **Deliverables**

- i) The report on Tandem operation of Arun-3 and Lower Arun Hydropower stations as per scope of work in soft as well as 3 Number hard copies.
- ii) The detailed calculations on above.

### **3.5 TIME SCHEDULE:-**

The assignment is expected to be completed within **6 months** to be reckoned from date of award or receipt of inputs (design & drawings) from SAPDC whichever is later. A more detailed time schedule is set out below:

- i) Submission of draft report within 3 months to be reckoned from date of award or receipt of inputs (design & drawings) from SAPDC whichever is later.
- ii) Final report within 6 months after award of work or receipt of inputs (design & drawings) from SAPDC whichever is later after incorporating the comments/observations /suggestions of SAPDC.

If the Consultant has qualified on the unconditional technical and financial strength of the parent/holding company, the deliverables under the Scope of Work shall be countersigned by the authorized person of the parent/holding company.

### **3.6 TIME FOR COMPLETION:-**

Time for Completion for Services to be performed by the Consultant shall be 6 months from date of start of this assignment. The start date for the assignment would be reckoned from the fulfilment of the following:

- a) Date of issuance of letter of award (LOA) and
- b) Receipt of inputs (design & drawings) from SAPDC

**SECTION-IV**  
**INSTRUCTIONS TO BIDDER**  
**(ITB)**

## **A. General**

### **1. Scope of Proposal:-**

- 1.1 The SJVN Arun-3 Power Development Company Private Ltd., hereinafter referred to as SAPDC, invites bids for Hiring of Consultancy services for Hydraulic Transient Analysis/ Study of Tandem Operating System (TOS) on Numerical Model and Proposing Regulation/Control Concept for TOS for Arun-3 HEP (900MW) and Lower Arun HEP (679 MW), Distt. Sankhuwasabha & Bhojpur, Nepal. as described in Brief Objective & Detailed Scope of Works/Srvices, (Section-III, Detailed Scope Of Works/Services) and referred to as “the Services”.
- 1.2 The successful Bidder will be required to complete the Services in the Time for Completion mentioned in the NIT.
- 1.3 Throughout these documents, the terms “bid”, “tender”, “proposal” & “Bidder” and their derivatives (tender/proposal, bidding/tendering, Bidder/Agency/Firm/Consultant etc.) are synonymous.

### **2.0 Eligible Bidders:-**

- 2.1 This Invitation for Bid is open to Bidder/Agency/Firm/Consultant having Registered office in Nepal/India & who meet the Qualification Criteria as defined in Clause 3.0 hereunder(Section-IV,ITB).
- 2.2 Bidders should not have been banned/ de-listed/ black listed/ debarred from business by Ministry of Power, Government of India/any PSU/any Government Department during the last 03 (three) years on grounds mentioned in para 6 of Guidelines on banning of Business Dealings enclosed as **Annex-A** of the format of Integrity Pact (**Schedule-B**). An undertaking to this effect shall be furnished by the bidder as per the format attached (**Annex-B**).
- 2.3 Bidders intending to participate as Joint Venture/Consortium are not eligible for participation.

### **3.0 Minimum Qualifying Requirements:-**

The Bidder/agency/firm/Consultant should meet the following qualifying requirements:

#### **3.1 Technical Experience:-**

- a. Experience of having successfully completion of at least one contract of similar nature during the last 20 years (reckoned from the date of issue of NIT).

Similar nature/similar tandem operation means “**Study/Analysis of Tandem operation System with negligible or small reservoir between two power plants and with discharge handling minimum 180 cumecs**”

In support of above experience condition, the bidder shall submit copies of award letter/contract agreement along with successful completion certificate from the agency/firm for which work was executed. The bid shall be treated as non-responsive in case bidder fails to provide supporting document in respect of turnover and experience as detailed above.



### 3.2 **Financial Requirements:-**

Average Annual turnover (Gross amount of revenue recognized in the profit and loss account from or on account of consultancy services rendered by the Bidder/Firm/Agency/Consultant/organization during a financial year during the last three Financial years, ending 15th July, 2020/31st March 2020 (as the case may be) should be at least i.e. NPR 1,29,60,000/- (INR 81,00,000/-).

In support of above, Annual Accounts/Audit Reports/ Balance sheets & profit and Loss Statement and/or tax clearance certificate obtained from the Inland Revenue Department or documents showing submission of tax returns for the past three financial years shall be furnished by the Bidder.

3.3 The above stated requirements are minimum and the Employer reserves the right to request for any additional information and also reserves the right to reject the proposal of any Bidder, if in the opinion of the Employer, the qualification data is incomplete or the Bidder if found not qualified to satisfactorily perform the Works.

3.4 Notwithstanding anything stated above, the Employer reserves the right to assess Bidder's capability and capacity to perform the works, should the circumstances warrant such an assessment in the overall interest of the Employer.

### 4.0 **Cost of Bid Preparation & Earnest Money Deposit (EMD)/Bid Security:-**

4.1 **Cost of Bid Preparation:-**The Bidder shall bear all costs associated with the preparation and submission of his proposal and SAPDC will in no case be responsible or liable for these costs, regardless of the conduct or outcome of the bidding process.

4.2 **Earnest Money Deposit (EMD)/Bid Security:-** EMD amounting to **NPR 8,64,000/-** shall be required to be submitted with the proposal in either of the form:

i. Bank Guarantee from any "A" class Bank in Nepal for the amounts expressed in Nepalese Rupees (NPR). The Bank Guarantees in equivalent INR amount shall be acceptable only if these are issued by a Scheduled Bank of India duly counter guaranteed by any A class bank in Nepal.

Bank Guarantee for EMD in original shall be submitted along with the proposal. Bank Guarantee may be in the format provided in tender document (**Form-E**). EMD shall remain valid for a period of 30 days beyond the original validity period of the proposal (**i.e 210 days from the las date of submission of bid**) or beyond any period of extension subsequently requested under Sub-Clause 11.0(Section-IV,ITB).

or

ii. FDR(issued by a "A" Class Nepalese Bank/Scheduled Bank of India shall only be acceptable) duly pledged in favour of SJVN Arun-3 Power Development Company Pvt. Ltd.

or

iii. Manager's cheque(issued by a "A" Class Nepalese Bank shall only be acceptable) in favour of SJVN Arun-3 Power Development Company Pvt. Ltd. payable at Khandbari.

or

iv. Alternatively, payment against EMD may also be made directly in the following account of SJVN Arun-3 Power Development Company Pvt. Ltd. However, proof of same shall be submitted by the Firm/agency with the Proposal in **Part-I (Envelope-I):**

#### **NPR Account Details:**

Everest Bank Limited

Name: SJVN Arun-3 Power Development Company Pvt. Ltd.

Acc. No. 00800105200477

Swift Code: EVBLNPKA

**Bidders are advised and shall be responsible to ensure the receipt of net amount (excluding bank transfer charges) in above account before last date of submission of bids.**

- 4.3 Any bid not accompanied by an acceptable Earnest Money Deposit shall be rejected by SAPDC as non-responsive.
- 4.4 The Earnest Money of unsuccessful Bidders will be returned within 28 days after the issuance of Letter of Acceptance to successful Bidder.
- 4.5 The Earnest Money of the successful Bidder will be discharged within 28 days after the successful Bidder has signed the Agreement and furnished the required Performance Security Deposit as per Clause 25.0 of Section-IV(ITB).
- 4.6 The Earnest Money may be forfeited:
- a) If the Bidder withdraws the bid after opening of bids during the period of validity of bid;
- Or**
- b) If the Bidder adopts corrupt or fraudulent practices
- Or**
- c) If the Bidder does not accept the correction of bid price pursuant to Clause No. 20.0 of Section-IV(ITB)
- Or**
- d) In the case of a successful Bidder, if the Bidder fails within the specified time limit to:
- i. sign the Agreement; and/or
- ii. furnish the required Performance Security Deposit.
- 4.7 No interest shall be paid by SAPDC on Earnest Money Deposit.

## **5.0 Site Visit:-**

- 5.1 The prospective Bidders are advised to visit the project site before submission of their bids. The Firm/agency shall bear all costs associated with the site visit.

The information about the project and/or its surroundings is given in good faith. The Bidder may however, obtain necessary information and acquaint themselves with Site by making site visit at their own cost.

- 5.2 Arun-3 Hydro Electric Project is located in Sankhuwasabha district, Nepal. The office of SAPDC is located at Tumlingtar. Dam site and Power house sites are located in Phaksinda (near Num) and Diding respectively which are 60 km from Tumlingtar. Nearest Railway station is Jogbani, Bihar approx. 300 km from sites and nearest airport is Tumlingtar, Nepal and Lower Arun Hydro Electric Project (679 MW) lies in the Sankhuwasabha & Bhojpur district, Nepal.

## **6.0 Clarification of Bidding Documents:-**

A prospective bidder requiring any clarification of the bidding documents may notify to the Chief Engineer (P&C), SAPDC, Arun-3 HEP, Satluj Bhawan, Arun Sadan, Tumlingtar, Distt. Sankhuwasabha, Nepal. Ph: +977-29-575154. Email : [pnc.lahep@gmail.com](mailto:pnc.lahep@gmail.com).

## **7.0 Amendment of Bidding Documents:-**

- 7.1 At any time prior to the deadline for submission of bids, the SAPDC may amend the Bidding Documents by the issuance of an addendum/corrigendum.
- 7.2 The corrigendum's and amendments if any shall be uploaded only on <http://sjvn.nic.in/tender.htm> , [www.sapdc.com.np](http://www.sapdc.com.np) & [www.eprocure.gov.in](http://www.eprocure.gov.in) all the bidders are requested to frequently visit the web sites till the schedule date of submission of bid.
- 7.3 The addendum thus issued shall be part of the bidding documents and shall be communicated to all prospective bidders who have purchased the Bidding Documents. Prospective bidders shall promptly acknowledge receipt thereof to the SAPDC.
- 7.4 In order to afford prospective bidders reasonable time in which to take an addendum into account for preparing their bids, the SAPDC may, at its discretion extend, as necessary, the deadline for submission of bids in accordance with Para-14.0 (Section-IV,ITB) hereof.

## **B. Preparation of Bids:-**

### **8.0 Language of Bids:-**

The proposal prepared by the Bidders and all correspondence and documents thereto exchanged by the Bidders and the SAPDC be written in English language. Supporting documents and printed literature furnished by the Bidders with the proposal may be in another language provided these are accompanied by an appropriate translation of pertinent passages in the above stated language. For the purpose of interpretation of the proposal, English language shall prevail.

### **9.0 Bid Price:-**

- 9.1 Unless stated otherwise in the Bidding Documents, the Contract shall be for the whole Works as described in the Bidding Documents based on Priced Schedule/Bill of Quantity submitted by the bidder.
- 9.2 The bidder shall offer rates & prices in the Priced Schedule/Bill of Quantities of the Bidding documents. The quoted rates shall be inclusive of all taxes, duties, GST (if applicable), Custom (If applicable), etc. **but Excluding VAT. VAT as applicable shall be deposited/reimbursed by SAPDC on production of documentary evidence. SAPDC shall not bear anything extra (except VAT) on this account.**
- 9.3 The rates and amounts shall be quoted in decimal in such a manner that no interpolation is possible. The rates and amounts shall be written both in words and figures. Corrections, if any, shall be made by crossing out, initialing, dating and rewriting. Corrections by applying correcting fluid shall not be permitted.
- 9.4 The bidder shall fill in unit rates and prices for all items of Works described in the Bill of Quantities/Priced Schedule. Items against which no rate or price is entered by the bidder will not be paid for by the SAPDC when executed, and shall be deemed to be covered by the other rates and prices in the Bill of Quantities/Priced Schedule. However, the rate for excess over quantities of such items beyond deviation limit prescribed under the contract will be worked out in accordance with the provisions contained in the Contract.
- 9.5 Only unconditional discount offered by the Bidder on the Performa for Price Bid shall be considered for evaluation.

## **10.0 Currencies of Bid and Payment:-**

- 10.1 The unit rates and prices can be quoted by the bidders either in NPR or in INR or combination of both. However, the total quoted amount shall be calculated by adding the amount quoted in INR and amount quoted in NPR. Currency chosen for the purpose of converting to a common currency shall be Nepalese Rupees (NPR) and for conversion from INR to NPR and vice versa, a factor of 1.6 will be considered.
- 10.2 Payment shall be made in the currency (INR/NPR) as quoted by the Bidder in BOQ.

## **11.0 Bid Validity Period:-**

- 11.1 Bids shall remain valid for acceptance for a period of 180 days (one hundred eighty days) from date of opening of Techno-Commercial Bids.
- 11.2 SAPDC may request the bidders to extend the period of validity for a specified additional period. The request and the bidder's response shall be made in writing. A bidder may refuse the request without forfeiting his bid security. A bidder agreeing to the request will not be permitted to modify his bid, but will be required to extend the validity of his bid security for the period of the extension and in compliance with Para-4.0(Section-IV,ITB) hereof in all respects.

## **12.0 Signing of Proposal**

The Proposal shall be typed or written in indelible ink and shall be signed by a person or persons duly authorized to sign on behalf of the Bidders under legally enforceable Power of Attorney. All the pages of the proposal shall be signed and stamped at the lower right hand corner by the person or persons signing the proposal.

- 12.1 The original bid shall be typed or written in indelible ink and shall be signed by a person or persons duly authorized to sign on behalf of the bidder under legally enforceable Power of Attorney. All the pages of the bid shall be signed and stamped at the lower right hand corner by the person or persons signing the bid.
- 12.2 The bid shall not contain any alterations or additions or deletions except those to comply with the instructions issued by the Employer or as necessary to correct errors made by the bidder in which case, such corrections shall be initialed by the person or persons signing the bid.
- 12.3 The Bid should be signed by legally authorized signatory only.
- a) If the tender is **submitted by an individual**, it shall be signed by the proprietor above his full name and name of the firm with its current business address.
  - b) If the tender is submitted **by a proprietary firm**, it shall be signed by the proprietor above his full name and full name of the firm with its current business address.
  - c) If the tender is submitted by a **firm in partnership**, it shall be signed by a partner holding the power of attorney for the firm for signing the tender, in which case a certified copy of the power of attorney shall accompany the tender. A certified copy of the partnership deed duly registered and current business address of all the partners of the firm shall also accompany the tender.
  - d) If the tender is submitted by a **limited company** or a **limited corporation**, it shall be signed by a duly authorized person holding the power of attorney or any other legally valid document for signing the tender, in which case a certified copy of the power of attorney or any such legally valid document shall accompany the tender.
  - e) All witnesses shall be persons of status and their full names, occupations and addresses shall be stated below their signatures.

**C. Submission of Bids:-**

**13.0 Documents comprising the Proposal and manner of Submission thereof:**

**13.1 The bid shall consist of two parts as under:**

**Part I (Envelope-I): Techno-commercial bid (excluding price bid).**

The following documents duly signed shall be submitted in this part of the proposal:

- a. Bid Security/EMD and Cost of Tender Document; **(In case of payment against cost of Tender Document/EMD have been made directly in the account of SAPDC, proof of same.)**
- b. Power of Attorney in favour of authorized signatory(if required);
- c. Letter for Tender- **Form A**;
- d. Financial Information Form - Form B;
- e. Technical/Work Experience of similar nature - Form C;
- f. Copy of VAT/PAN/GST Registration;
- g. Company Registration Certificate (In case of firm/company bidder shall submit the certificate of incorporation along with article of association & article of association, as applicable);
- h. Integrity Pact as per Schedule-B;
- i. All the documents as specified under clause No. 2.0 & 3.0, 'Eligible bidder' & 'Minimum Qualifying Requirements' of Section-IV, Instructions to Bidder.
- j. Comprehensive methodology and proposed work plan in responding to this assignment.
- k. Any other input required by the Bidder/Firm/Agency/Consultant as per Clause No. 3.1 of Section-III, Detailed Scope Of Works/Services) (list to be submitted along with bid proposal) (If required by the bidder).

(No material/information relating to Price Bid shall be included in the Technical Bid. A technical bid containing any information related to price bid may be declared non-responsive).

**Part II. (Envelope-II): Price Bid**

Comprising of Price Bid, duly filled in & signed Bill of Quantities (BOQ)(**Schedule-A**).

- 13.2 A rate or price shall be entered against each item in the priced Bill of Quantities (Price Schedule), whether quantities are stated or not. The cost of items against which the Contractor has failed to enter a rate or price shall be deemed to be covered by other rates and prices entered in the Bill of Quantities (Price Schedule).
- 13.3 In the "Techno-Commercial" part of the bid the bidder shall not give any indication about the bid price in any manner whatsoever. Non-compliance of this provision may result in the rejection of bid.
- 13.4 The part II of the bid (i.e. Price bid) shall be strictly in accordance with the forms provided in the Bill of Quantities /Price Schedule.
- 13.5 The bidder shall not take any deviation from the bid conditions.

- 13.6 The bidder shall also fill, sign and stamp each page of the documents forming part of the bid, on the left hand cover (bottom side).
- 13.7 **The Part-I & Part-II of the bids shall be packed and submitted in the following manner.**
- i. Part-I & Part-II of the bids shall be kept in separate sealed envelopes/covers duly super scribed with the “The Part-I (Techno Commercial Bid including Bid security, Cost of Tender Document) and Part-II (Price Bid).
  - ii. The two separate covers containing Part-I & Part –II of the bid shall then be kept in a cover and sealed. The outer most cover would bear the following identifications:

**On upper left hand corner.**

- i. Bid for (Name of Work)
- ii. Do not open before \_\_\_\_\_ {Bidder shall mention scheduled date & time as per Sr No. 1.7 of NIT or its extension if any}
- iii. To be opened by tender committee only.

**In the center of the cover.**

Name of the person/ officer and the office address to whom bid is addressed.

**On the bottom left hand corner:**

Name and address of the bidder.

- 13.8 The bids as above shall be submitted either in person or through courier or by post to following address:-

**Chief Engineer (P&C),  
Arun-3 HEP, SAPDC, Satluj Bhawan, Arun Sadan,  
Tumlingtar, Distt. Sankhuwasabha, Nepal  
Ph. +977-29-575154, Mob.: +977-9852058517  
OR**

**O/o Company Secretary,  
Arun-3 HEP, SAPDC  
House No. 3, Ward No. 1, Swagat Marg,  
Madhyapur (Thimi) Municipality, Lokanthali, Kathmandu.  
Ph. +977-1-6632030, Mob.: +977-9819822967**

**However, SAPDC not be responsible for any delay in receipt due to any reason whatsoever and/ or for loss of the bid in postal transit..**

**14.0 Deadline for Submission of Bids:-**

- 14.1 The Proposal shall be received by SAPDC not later than the time & date specified at Sr. No. 1.6 of Notice Inviting Tender (NIT) at the address specified at Sr. No. 1.10 of Notice Inviting Tender (NIT). SAPDC shall not be responsible for any delay in receipt due to any reason whatsoever and/ or for loss of the proposal in postal transit. However, if BIDDERS opts for submission of EMD directly in the bank account of SAPDC as per Clause No. 3.0 of Section-IV,ITB, then the proof of same shall be submitted by the Bidders alongwith the Proposal.
- 14.2 SAPDC may extend the deadline for submission of bids by issuing an amendment in accordance with Sr. No. 4 of Notice Inviting Proposal, in which case all rights and obligations of the SAPDC and the Bidders previously subject to the original deadline will then be subject to the new deadline.

**15.0 Late/Delayed Proposal:-**

Any proposal received by the SAPDC after the deadline prescribed by the SAPDC in accordance with Para-14.0(ITB) hereof will be returned un-opened to the bidder.

**16.0 Modification and Withdrawal of Bids:-**

16.1 The bidder may modify or withdraw his bid after bid submission, provided that the modification or notice of withdrawal is received in writing by the SAPDC prior to the prescribed deadline for submission of bids.

16.2 The bidder's modification or notice of withdrawal shall be prepared, sealed, marked and delivered in accordance with the Para 12.0(ITB) & 13.0(ITB) hereof, with the inner envelopes additionally marked "Modification" or "Withdrawal" as appropriate.

16.3 Subject to Para-18.0(ITB), no bid may be modified subsequent to the deadline for submission of bids.

16.4 Withdrawal/Modification of bid between the deadline for submission of bids and the expiry of the period of bid validity or as extended pursuant to Para-11.0(ITB) hereof shall result in the forfeiture of the bid security pursuant to Para-4.0(ITB) hereof.

**17.0 Bid Opening:-**

17.1 Bids for which an acceptable notice of withdrawal has been submitted pursuant to Para-16.0(ITB) hereof shall not be opened.

17.2 Then, the Part-I of the bid i.e., the envelope containing bid security & cost of tender document and the document as per 13.1 of ITB shall be opened. The bids whose bid security/ cost of tender document is either deficient in value and/ or form, will be rejected out rightly & will not be evaluated further. The envelope of modification pursuant to Para-16.0(ITB) hereof, if any, to this part of bid shall be opened first.

17.3 The "Price Bid" (Part-II of the bid) shall be opened at a subsequent date for which a separate intimation will be sent. It will be discretion of the SAPDC to invite all the bidders to be present at the time of opening of price bids or only those bidders whose bids are ascertained to be techno-commercially responsive. The envelope of modification pursuant to Para-16.0(ITB) hereof, if any, to this part of bid shall be opened first.

17.4 Bidder's authorized representatives may attend the bid opening. The officers of the SAPDC authorized for opening of bids will announce the bidder's name, written notifications of bid withdrawal if any, the presence or absence of the requisite bid security, the deviations taken by the bidder's etc., and any such detail as the said officer(s) may consider appropriate. The bidder's representative(s) shall sign register provided by SAPDC for evidencing their participation in the process of bid opening.

**18.0 Clarification of Bids:-**

To assist in the examination, evaluation and comparison of bids, the SAPDC may ask bidders individually for clarification of their bids. The request for clarification and the response shall be in writing or by email, but no change in the price or substance of the bid shall be sought, offered or permitted except as required to confirm the correction of arithmetic errors discovered by the SAPDC during the evaluation of the bids in accordance with sub-Para-20.1(ITB) hereof.

## **19.0 Determination of Responsiveness & Techno-Commercial evaluation:-**

- 19.1 Prior to the detailed evaluation of bids, the SAPDC will determine whether each bid:
- i) meets the eligibility and qualification requirements set out under Para 2.0 & 3.0 of ITB hereof ;
  - ii) has been properly signed by an authorized Signatory.
  - iii) is accompanied by the required securities, and
  - iv) is substantially responsive to the requirements of the bidding documents.
- 19.2 A substantially responsive bid is one, which conforms to all the terms, conditions and specifications of the Bidding Documents without material deviation or reservation. A material deviation or reservation is one:
- i) which affects in any substantial way the scope, quality, or performance of the Works;
  - ii) which limits in any substantial way, inconsistent with the Bidding documents, the SAPDC rights or the bidder's obligations under the Contract ; or
  - iii) whose rectification would affect unfairly the competitive position of other bidders presenting substantially responsive bids.
- 19.3 If a bid is not substantially responsive, it will be rejected by the SAPDC and may not subsequently be made responsive by correction or withdrawal of the non-conforming deviation or reservation or by submission of subsequent clarifications.
- 19.4 During the evaluation of bids, the following definitions apply:
- a) "Deviation" is a departure from the requirements specified in the Bidding Document;
  - b) "Reservation" is the setting of limiting conditions or withholding from complete acceptance of the requirements specified in the Bidding Document; and
  - c) "Omission" is the failure to submit part or all of the information or documentation required in the Bidding Document.

## **20.0 Commercial evaluation:-**

- 20.1 Bids determined to be substantially responsive will be checked by the SAPDC for any arithmetic errors. Errors will be corrected by the SAPDC as follows:
- i) where there is a discrepancy between unit rate in figures and in words, the unit rate in words will govern; and
  - ii) Where there is a discrepancy between the unit rate and the line item total resulting from multiplying the unit rate by the quantity, the unit rate as quoted in words will govern.
  - iii) In case error due to wrong extension of quantities, the quantities as specified in the Bid documents will be considered and multiplied by the unit rates quoted in words to obtain the amount.
- 20.2 The amount stated in the Bid will be adjusted by the SAPDC in accordance with the above procedure for the correction of errors and shall be considered as binding upon the bidder. If the bidder does not accept the corrected amount of bid, his bid will be rejected and the bid security shall be forfeited.

## **20.3 Evaluation and Comparison of Bids:-**

- 20.3.1 The SAPDC will evaluate and compare only the bids determined to be substantially responsive to the requirements of the Bidding Documents in accordance with Para-19.0(ITB) hereof.
- 20.3.2 In evaluating bids, SAPDC will determine, for each bid, the Evaluated Bid Price by adjusting the bid price as follows.



- i) Making any correction for errors pursuant to sub-Para-20.1 (ITB) hereof;
- ii) Making an appropriate adjustment to reflect discounts or other price modifications offered in accordance with Para-16.0(ITB) hereof.
- iii) Making an appropriate adjustment for the discount offered by the Bidder. Only unconditional discount offered by the bidder on the Performa for Price Bid shall be considered.

20.3.3 In case bids are invited on Item Rate Method and if the bid of the successful bidder is seriously unbalanced in relation to the Engineer's estimate of the cost of work to be performed under the contract, the Employer may require the Bidder to produce detailed price analyses for any or all items of the Bill of Quantities, to demonstrate the internal consistency of those prices with the construction methods and schedule proposed. After evaluation of the price analyses, the Employer may require that the amount of the performance security set forth in Clause 25.0 of ITB be increased at the expense of the successful Bidder to a level sufficient to protect the Employer against financial loss in the event of default of the successful Bidder under the Contract. The amount of the increased performance security shall be decided at the sole discretion of the Employer, which shall be final, binding and conclusive on the bidder.

#### **21.0 Award Criteria:-**

Subject to Para-22.0 (ITB) hereof, the SAPDC will award the contract to the bidder whose bid has been determined to be substantially responsive to the Bidding documents and who has offered the lowest evaluated bid price pursuant to Para-20.0 (ITB) hereof and the evaluated Bid Price is within a reasonable variation of the estimated cost of tendered Works.

#### **22.0 SAPDC Right to accept any Proposal and to reject any or All Bids:-**

Notwithstanding Para-21.0(ITB), the SAPDC reserves the right to accept or reject any bid or to annul the bidding process and reject all bids, at any time, without thereby incurring any liability to the affected bidder or bidders or any obligation to inform the affected bidder or bidders of the grounds for the SAPDC action.

#### **23.0 Notification of Award:-**

23.1 Prior to the expiration of the period of bid validity prescribed by the SAPDC or any extension thereof, the SAPDC will notify the successful bidder in writing that his bid has been accepted. This letter (hereinafter and in the Conditions of Contract called "Letter of Acceptance") shall name the sum which the SAPDC will pay to the Contractor in consideration of the execution, completion and maintenance of the Works by the Contractor as prescribed by the Contract (hereinafter and in the Conditions of Contract called "the Contract Price").

23.2 The notification of award will constitute the formation of the Contract.

#### **24.0 Signing of Contract Agreement:-**

24.1 Within thirty (30) days from issuance of Letter of Acceptance, on a date and time mutually agreed upon, the successful bidder or his authorized representative shall attend the Office of Chief Engineer (P&C), Arun Sadan, SAPDC Office Complex, Tumlingtar, Nepal for signing of the Agreement. The Performa of Agreement is as at **Annexure-I**.

24.2 Failure on the part of the successful bidder to comply with the requirements of this Para will constitute sufficient grounds for the annulment of the award and forfeiture of the bid security.

## **25.0 Performance Security Deposit:-**

- 25.1 Within 30 (thirty) days from the date of issue of the Letter of Acceptance, the successful bidder shall deliver to the Employer a Performance Security equal to **5% (Five percent)** of the Contract Price, plus additional security (If required) for unbalanced bids in accordance with Clauses 20.3.3 of ITB valid till 45 days beyond Contract Period.
- 25.2 The Performance Security Deposit shall be submitted in the form of Manager Cheque/ FDR duly pledged in favor of Employer/ Demand Draft endorsed in favour of Employer/ Bank Guarantee in favor of SJVN Arun-3 Power Development Company Pvt. Ltd. payable at Khandbari issued by a Class A bank situated in Nepal. The FDR/DD issued by a “A” Class Nepalese Bank shall only be acceptable. The BG May be in format provided at ‘**Form-F**’
- 25.3 The Bank Guarantees in INR shall be acceptable only if these are issued by a Scheduled Bank of India duly counter guaranteed by any A class bank in Nepal.
- 25.4 Failure of the successful Bidder to comply with the requirements of Clause 25.1(ITB) shall constitute sufficient grounds for cancellation of the award and forfeiture of the Earnest Money Deposit. He will also be debarred from participating in bids invited by the Project for one year.
- 25.5 The performance guarantee will be returned to the contractor within 30 days after completion of Contract period without any interest and “Satisfactory Performance Certificate” issued by E.I.C. (Engineer –in- Charge).

## **26.0 Process to be Confidential:-**

- 26.1 Information relating to the examination, clarification, evaluation, and comparison of bids and recommendations for the award of a contract shall not be disclosed to Bidder or any other persons not officially concerned with such process. Any attempt by a Bidders to influence SAPDC’s processing of bids or award decisions may result in the rejection of his Bid.

## **27.0 Corrupt or Fraudulent Practices:-**

The Employer requires the bidders/Consultants under this contract observe the highest standard of ethics during the procurement and execution of this contract. In pursuance of this policy, the Employer:

- (a) defines, for the purpose of these provisions, the terms set forth below as follows:
- i. “corrupt practice” means the offering, giving, receiving or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution; and
  - ii. “fraudulent practice” means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to be detriment of the Employer, and includes collusive practice among Bidders (prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive the Employer of the benefits of free and open competition.
- (b) will reject a Bid for award of work if he determines that the Bidder recommended for award has engaged in corrupt or fraudulent practices in competing for the contract in question.
- (c) Will declare a Bidder ineligible, either indefinitely or for a stated period of time, to be awarded a contract/contracts if he at any time determines that the Bidder has engaged in corrupt or fraudulent practices in competing for, or in executing, the contract.

**28.0 Integrity Pact(Schedule-B):-** To improve transparency and fairness in the tendering process the Employer is implementing Integrity Pact.

The Integrity Pact, signed by the prospective Bidders and the Employer, shall commit the persons/officials of both the parties, not to exercise any corrupt/fraudulent/collusive/coercive practices in the Tendering process and also during implementation of the Contract. Bidders signing Integrity Pact shall not approach the Courts while representing the matters to IEMs (which have been appointed by CVC, India) and will await their decision in the matter.

**Entering into Integrity Pact as per Performa (enclosed under Schedule-B) is a basic qualifying requirement.**

To oversee the compliance of obligation under the Integrity Pact, two Independent External Monitor(s) (IEMs) have been appointed. The details of IEMs are as under:

- 1. Dr. Jai Pal Singh**
- 2. Sh. Shitala Prasad Srivastava**

The address for correspondence with IEMs is as under:

**Independent External Monitors for SJVN,  
C/o Chief Engineer (P&C)  
SAPDC, Arun-3 HEP,  
Satluj Bhawan, Arun Sadan,  
Tumlingtar, Distt. Sankhuwasabha, Nepal**

The Integrity Pact duly signed on behalf of the Employer has been enclosed under Schedule-B in this document. The Integrity Pact shall be printed & signed by the bidder/supplier and the hard copy **shall be submitted in Part-I (Envelope-I).**

## **SECTION-IV**

### **LETTER OF TENDER, FINANCIAL & TECHNICAL INFORMATION FORMS**

**LETTER OF TENDER****To,****Chief Engineer (P&C),  
SAPDC, Arun-3 HEP, Tumlingtar.**

1. We have read and examined the following Bidding Documents relating to " Hiring of Consultancy services for Hydraulic Transient Analysis/ study of Tandem Operating System (TOS) on Numerical Model and Proposing Regulation/Control Concept for TOS for Arun-3 HEP (900MW) and Lower Arun HEP (679 MW), Distt. Sankhuwasabha & Bhojpur, Nepal."

<b>Section-I</b>	Notice Inviting Tender (NIT)
<b>Section-II</b>	Brief Description of Projects
<b>Section-III</b>	Brief Objective & Detailed Scope of Works/Services
<b>Section-IV</b>	Instructions to Bidder(ITB)
<b>Section-V</b>	Letter of Tender and Financial & Technical Information Forms.
<b>Section-VI</b>	General Conditions of Contract (GCC)
<b>Section-VII</b>	Bill of Quantities

2. We hereby submit our proposal for said assignment upon the terms and conditions contained or referred to in the aforesaid documents.
3. We agree to keep this proposal open for acceptance for 180 days from the date of opening of Techno-Commercial Bids and also agree not to make any modifications in its terms and conditions on our own accord.
4. We certify that the proposal submitted by us is strictly in accordance with the terms, conditions, specifications etc. as contained in this Bidding Documents, referred to in paragraph-1 above, and it does not contain any deviations to the aforesaid documents. Further, deviations, if any, which might have crept inadvertently, are automatically deemed to have been withdrawn by us without any reservation.
5. It is further certified that information furnished in the proposal submitted by us is correct to the best of our knowledge and belief.

6. This 'LETTER OF TENDER' is made in the full understanding that:
- a. Through this tender, SAPDC intends to Hiring of Consultancy services for Hydraulic Transient Analysis/ study of Tandem Operating System (TOS) on Numerical Model and Proposing Regulation/Control Concept for TOS for Arun-3 HEP (900MW) and Lower Arun HEP (679 MW), Distt. Sankhuwasabha & Bhojpur, Nepal.
  - b. Bidding process may be subject to verification of all information submitted at the discretion of SAPDC.
7. I/We agree to abide by and fulfill all the terms and conditions and provisions of the above-mentioned tender documents.

(Signature of person duly authorized to sign the proposal on behalf of the Bidder/Firm/Agency along with Seal of Company)

Name\_\_\_\_\_

Designation\_\_\_\_\_

Contact No. /Email ID\_\_\_\_\_

**Witness:**

Name\_\_\_\_\_

Signature\_\_\_\_\_ Designation\_\_\_\_\_ Date\_\_\_\_\_

Name of Company\_\_\_\_\_

Telephone No./Email ID\_\_\_\_\_

**FINANCIAL INFORMATION**

We declare that the Financial information during the last 3 years, ending 31.03.2020 (A.D.) / 31.03.2076 (B.S. Calendar) are as under:

<b>S. No.</b>	<b>Period</b>	<b>Annual turnover (Gross amount of revenue recognized in the profit and loss account from or on account of consultancy services rendered by the Bidder/Firm/Agency/Consultant/organization during a financial year</b>
1.	2017-18 / 2073-74	
2.	2018-19 / 2074-75	
3.	2019-20 / 2075-76	
4.	Average for the last three (03) financial years.	

**STATEMENT OF SIMILAR NATURE WORKS COMPLETED**

We declare that we ourselves as Sole Contractor or as Partner of JV or Sub-contractor or Consultant have Successfully completed/executed the works tabulated below during preceding 20 years(reckoned from the date of issue of NIT) (work may be started earlier):

<b>Sl. No.</b>	<b>Name of Work</b>	<b>Role/ Responsibilities</b>	<b>Capacity of Project(s)</b>	<b>Name of Client/ employer</b>	<b>Date of LOA/ Agreement &amp; Date of Completion</b>

**Note: -**

- i. Bidder to fill in the details as provided here-in-above and attach additional pages, if necessary, in case of JV.*
- ii. Bidder to enclose necessary certificates in support of above details.*
- iii. Copy of Joint Venture Agreement also to be furnished where the works have been executed in joint venture.*

**For and on behalf of the Bidder**

.....

**(Signature of authorized representative of the Bidder, along with name, Seal of Company)**



**Deleted**

**For and on behalf of the Bidder/Firm/Agency**

.....

**(Signature of authorized representative of the Bidder, along with name, Seal  
of Company)**

**INSTRUCTIONS TO BE FOLLOWED FOR EXECUTION OF ALL KINDS OF BANK GUARANTEES**

1. Bank Guarantee should be executed on papers of requisite value in accordance with the Stamp Act as applicable in Nepal.
2. The executing officers of the Bank Guarantee shall clearly indicate in (Block Letters), his name, designation, Power of Attorney No:/Signing Power No. etc.
3. Each page of the Bank Guarantee shall be duly signed / initialed by the executing officers and the last page shall be signed in full, indicating the particulars as aforesaid (sub-para2) under the seal of the Bank.

**1. FORM OF BANK GUARANTEE FOR EARNEST MONEY DEPOSIT**

**(Refer clause 4.0 of Section-IV)**

WHEREAS \_\_\_\_\_ (Name of Firm/agency) (hereinafter called "the Firm/agency") has submitted his bid dated \_\_\_\_\_ (date) for " Hiring of Consultancy services for Hydraulic Transient Analysis study of Tandem Operating System (TOS) on Numerical Model and Proposing Regulation/Control Concept for TOS for Arun-3 HEP (900MW) and Lower Arun HEP (679 MW), Distt. Sankhuwasabha & Bhojpur, Nepal."

SEALED with the Common Seal of the said Bank this \_\_\_ day of \_\_\_\_\_ (Month and Year).

THE CONDITIONS of this obligation are:

1. If after Bid opening the Firm/agency withdraws his Bid during the period of bid validity specified in the Form of Bid or
2. If the Firm/agency having been notified of the acceptance of his Bid by the SJVN Arun-3 Power Development Company Private Limited, during the period of bid validity.
  - a. fails or refuses to execute the Form of Agreement in accordance with the Instructions to Bidder, if required; or
  - b. fails or refuses to furnish the Performance Security, in accordance with the Clause-25.0 of Section-IV,ITB of Tender Document, or
  - c. does not accept the correction of the Bid Price pursuant to Clause-20.0 of Section-IV, ITB of Tender Document.
  - d. adopts corrupt or fraudulent practices

we undertake to pay to the SJVN Arun-3 Power Development Company Private Limited, the above amount upon receipt of its first written demand without the SJVN Arun-3 Power Development Company Private Limited having to substantiate its demand, provided that in its demand the SJVN Arun-3 Power Development Company Private Limited will note that the amount claimed by it due to it owing to the occurrence of one or any of the three conditions, specifying the occurred condition or conditions.

This Guarantee will remain in force up to and including the date 210 days after the deadline for submission of Bids as stated in the invitation to bid or as it may be extended by the SJVN Arun-3 Power Development Company Private Limited notice of which extensions(s) to the Bank is hereby waived. Any demand in respect of this Guarantee should reach the Bank not later than the above date.

DATE \_\_\_\_\_

SIGNATURE OF THE BANK \_\_\_\_\_

WITNESS \_\_\_\_\_

SEAL \_\_\_\_\_

(Signature, name and address)

**2. FORM OF BANK GUARANTEE FOR PERFORMANCE SECURITY DEPOSIT**

**(Refer clause 25.0 of Section-IV,ITB)**

Date:

To,  
Name & Address of the Employer

We have been informed that .....(the "Bidder/Contractor/Firm/Consultant/Agency/company"), having its registered office at ..... has entered into an Agreement on .....2021 with you for the work of " Hiring of Consultancy services for Hydraulic Transient Analysis/ study of Tandem Operating System (TOS) on Numerical Model and Proposing Regulation/Control Concept for TOS for Arun-3 HEP (900MW) and Lower Arun HEP (679 MW), Distt. Sankhuwasabha & Bhojpur, Nepal."

In accordance with the terms of the AGREEMENT, the Company is required to submit an unconditional and irrevocable, payable on-demand bank guarantee of NPR ..... (Nepalese Rupees ..... only), (the "**Security Amount**") to SAPDC for the due and faithful performance of the Company's obligations under the AGREEMENT (the "**Performance Security**") and we .....(name and address of the Bank, hereinafter called the "**Guarantor**") have at the request of the Company agreed to provide such Performance Security, being this Bank Guarantee (Performance Security) No. ....

On your first written demand, stating that (a) the Company is in default of its obligations under the AGREEMENT, or (b) the Company has not replaced this Performance Security with another performance security issued on the same terms at least fourteen (14) days prior to the Expiry Date (as hereinafter defined), we, the Guarantor as primary obligor hereby expressly, unconditionally and irrevocably undertake to pay to SAPDC, without demur, reservation, protest and any reference to the Company or the AGREEMENT the amount specified in such demand, provided that the total of all demands shall not exceed the sum of the Security Amount. You shall not be required to prove or show grounds for your demand or the sum specified therein. It is clarified further that your demand shall be conclusive evidence to us that such payment is due under the terms of the AGREEMENT. It shall not be necessary, and the Guarantor hereby waives any necessity, for SAPDC to proceed against the Company before presenting to the Guarantor its demand under the Performance Security.

The term of this Performance Security shall commence on the date of its issuance and shall expire on the date 45 days beyond Contract Period (the "**Expiry Date**").

All claims, if any, in respect of this Performance Security must be received by the Guarantor on or before the Expiry Date.

This guarantee is subject to Uniform Rules for Demand Guarantees ICC Publication No. 758, except that the provisions of Article 26 are hereby excluded and shall be governed by and construed in accordance with the Laws of Nepal and will be subject to the jurisdiction of the courts of Nepal.

The Performance Security shall not be affected by any change in the constitution of the Guarantor or of the

Company.

Notwithstanding anything contained hereinabove:

- (1) Our liability under this Guarantee shall not exceed the Security Amount
- (2) Any demand may be brought by SAPDC under this Guarantee up to close of business on the Expiry Date.
- (3) We shall be liable to pay any amount under this Guarantee or part thereof only if we receive a claim or demand in writing within banking hours at our branch on or before the Expiry Date and if no such demand has been received by us by that time and date, all rights to bring any demand under this guarantee will cease.

Notwithstanding sub-section (2) and (3) above, all claims made by SAPDC on or before the Expiry Date shall, subject to sub-section (1) above, be honoured by the Guarantor where payment in respect of such demands have not been made by the Expiry Date.

This guarantee (or any of its proceeds) is not assignable and is not transferable in whole or in part.

Upon payment by the Guarantor in respect of all claims or demands made by SAPDC under this Bank Guarantee on or before the Expiry Date, this guarantee automatically becomes null and void whether or not the original has been returned to us.

Signed for and on behalf of: .....

Name: .....

Designation:.....

Seal of the Bank:.....

Signed for and on behalf of: .....

**[Note: delete the following signature block if not applicable]**

***[Signed for and on behalf of confirming bank in Nepal:.....]***

***Name:.....***

***Designation:.....***

***Seal of the Bank:.....***

***Signed for and on behalf of:...../***

**3. PROFORMA FOR AGREEMENT**

This agreement made this \_\_\_\_\_ day of \_\_\_\_\_ between \_\_\_\_\_ (name and address of Employer) (hereinafter called “SJVN Arun-3 Power Development Company Private Limited/SAPDC/Employer”) and \_\_\_\_\_ (name and address of BIDDER) (hereinafter called “the Bidder/contractor/Consultant” of the other party).

Whereas the SJVN Arun-3 power Development Company Private Limited is desirous that the Contractor \_\_\_\_\_ executes \_\_\_\_\_ (name and identification number of Contract) (hereinafter called ‘the Works/Services’) and the SJVN Arun-3 Power Development Company Private Limited has accepted the Bid by the Contractor for the execution and completion of such Works and the remedying of any defects herein at a contract price of NPR \_\_\_\_\_

NOW THIS AGREEMENT WITNESSETH as follow:

1. In this Agreement, words and expression shall assume the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to.
2. In consideration of the payments to be made by the SJVN Arun-3 Power Development Company Private Limited to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the SJVN Arun-3 Power Development Company Private Limited to execute and complete the Work and remedy the defects therein in conformity, in all aspects, with the provisions of the Contract.
3. The SJVN Arun-3 Power Development Company Private Limited hereby covenants to pay the Contractor in consideration of the execution and completion of the Works and remedy the defects wherein the contract price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.
4. The following documents shall be deemed to form and be read and construed as part of this Agreement, viz:
  - a) Agreement;
  - b) Letter of Acceptance issued by Employer;
  - c) Corrigendum/Addendum(if any);
  - d) Special Conditions of Contract(SCC);
  - e) General Conditions of Contract(GCC);
  - f) Detailed Scope of Works/Services;
  - g) Priced Schedule of Quantities & Prices/Bill of Quantities;
  - h) Bidder's Bid other than BOQ;
  - i) Instructions to Bidder's (ITB) & Notice Inviting Tender(NIT); and
  - j) Any other document forming part of the Contract

The aforesaid documents shall be taken as complementary and mutually explanatory of one another but in case of ambiguities or discrepancies shall take precedence in the order set out above.

In witness whereof the parties have caused this Agreement to be executed the day and year first before written.

Signed and Delivered

For and on behalf of the Contractor

For and on behalf of SJVN Arun-3 power  
Development Company Private Limited

i) Name: \_\_\_\_\_  
(Authorized Signatory)

Name: \_\_\_\_\_

ii) Name : \_\_\_\_\_  
\_\_\_\_\_

Designation:

In the presence of:

In the presence of :

Name \_\_\_\_\_  
\_\_\_\_\_

Name \_\_\_\_\_  
\_\_\_\_\_

Add. \_\_\_\_\_  
\_\_\_\_\_

Add. \_\_\_\_\_  
\_\_\_\_\_

**Note:** This Performa is included in the Bidding Documents only for the information of the Firm(s)/agency(ies). Only the successful firm/agency, shall, in due course, be required to fill this Performa.

# **SECTION-V**

## **GENERAL CONDITIONS OF CONTRACT(GCC)**



## GENERAL CONDITIONS OF CONTRACT

### **1.0 DEFINITIONS:**

- (i) **Bill of Quantities or Schedule of Quantities & Prices:** means the priced and completed bill of quantities forming part of the Contract.
- (ii) **Contract:** means the document forming the tender, acceptance thereof and the formal agreement executed between the SAPDC and the Contractor/Bidder/Consultant, together with documents referred to therein.
- (iii) **Contract Price:** means the amount arrived at by multiplying the quantities shown in the Bill of Quantities by the respective item rates as allowed and included in the Letter of Acceptance.
- (iv) **Contractor/Consultant:** means the successful Bidder who is awarded contract to perform the work covered under these tender documents and shall be deemed to include the Contractor's successors, executors, representatives or assigns.
- (v) **Employer:** means the SJVN Arun-3 Power Development Company (P) Ltd. (SAPDC), Tumlingtar, Nepal (A Subsidiary of SJVN Ltd., a joint venture of GoI & Govt. of H.P.) having Registered office at Kathmandu, Nepal, and includes therein legal representatives, successors and assigns.
- (vi) **Day:** means a calendar day beginning and ending at midnight.
- (vii) **Officer-in-Charge/ Engineer-in- Charge (OIC/EIC):** The OIC/EIC of this work nominated by the Employer or its duly authorized representative to direct, supervise and be in charge of the works for the purpose of this contract.
- (viii) **Letter of Award or Acceptance (LoA):** means a letter from the Employer/EIC conveying the acceptance of the tender/offer subject to such reservations as may have been stated therein.

### **2.0 INTERPRETATIONS:-**

- 2.1 Words importing the singular only shall also include the plural; he includes she and vice versa unless this is repugnant to the context. Unless specifically defined, words shall have normal meaning under the language of Contract.
- 2.2 Heading and marginal notes in these General Conditions shall not be deemed to form part thereof or be taken into consideration in the interpretation or construction thereof of the Contract.
- 2.3 Any error in description, quantity or price in Bill of Quantities or any omission there from shall not vitiate the Contract or release the Contractor from execution of the whole or any part of the Works comprised therein according to drawings and Specifications or from any of his obligations under the Contract.
- 2.4 Detailed drawings shall be followed in preference to small scale drawings (sketch drawings) and figured dimensions in preference to scaled dimensions. In the case of discrepancy between the Letter of acceptance issued by Employer, Special Conditions of Contract, Technical Specifications, General Conditions of Contract, the Tender

Drawings and/or Bill of Quantities and other documents of Contract the following order of precedence shall prevail:

- a) Agreement;
- b) Letter of Acceptance issued by Employer;
- c) Corrigendum/Addendum(if any);
- d) Special Conditions of Contract(SCC);
- e) General Conditions of Contract(GCC);
- f) Detailed Scope of Works/Services;
- g) Priced Schedule of Quantities & Prices/Bill of Quantities;
- h) Bidder's Bid other than BOQ;
- i) Instructions to Bidder's(ITB) & Notice Inviting Tender(NIT); and
- j) Any other document forming part of the Contract

Any other document forming part of the Contract.

### **3.0 PRICES AND TAXES & DUTIES:-**

3.1 The rates shall be inclusive of all cost towards providing services along with Insurance inclusive of all taxes and duties, GST (if applicable), Custom (If applicable) etc. **but Excluding VAT** and SAPDC shall not bear anything extra on this account. The rates shall be firm during the entire period of contract and no escalation shall be payable. TDS will be deducted as per laws applicable in Nepal. **VAT as applicable shall be deposited/reimbursed by SAPDC on production of documentary evidence.**

3.2 Statutory variation in taxes and duties or levy of any new tax after deadline for submission of bid will be adjusted/ reimbursed against production of documentary evidence.

### **4.0 CONTRACT PERIOD:-**

The Contract shall be valid for a period of Six(06) months to be reckoned from the date of issuance of Letter of Acceptance or Receipt of inputs(Design & Drawings) from SAPDC whichever is later. The contractor shall take over and commence the work within 15 days from the date of issue of Letter of Award Letter of Acceptance or Receipt of inputs(Design & Drawings) from SAPDC whichever is later. If the contractor commits default in the commencement of work within 15 days of issue of LOA or Receipt of inputs(Design & Drawings) from SAPDC whichever is later, SAPDC shall without prejudice to any other right or remedy be at liberty to cancel the Contract and forfeit the Earnest Money Deposit/ Performance Security.

### **5.0 PAYMENT:- The payments will be made in the following manner:-**

#### **5.1:-**

a.	Submission of draft report as per scope work & Time Schedule and on submission of following documents to EIC for release of the payment i) Invoices in triplicate	Forty percent (40%) of contract price/lump sum amount for Consultancy Services shall be made upon recommendation of OIC/EIC.
b.	Submission of final report(After incorporation of comments/observation/suggestion of SAPDC) as per scope work & Time Schedule and on submission of following documents to EIC for release of the payment i) Invoices in triplicate	50% of contract price/lump sum amount for Consultancy Services shall be made after acceptance of final Report by SAPDC & upon recommendation of OIC/EIC.

c.	After completion of the hydraulic model studies as described in <b>para 3.3(i) Under the heading Specific Requirement/Conditions of Scope of works/services.(Section-III)</b>	Balance ten percent (10%) of contract price/lump sum amount for Consultancy Services shall be made upon recommendation of OIC/EIC. Further, On consultant's request, balance 10% can be released against submission of Bank Guarantee of equivalent amount acceptable to EIC valid for two years and extendable till the completion of Hydraulic model studies.
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**5.2:-**

- a) GST/VAT, TDS, Income Tax and other taxes shall be paid/ deposited/ deducted as per provisions of applicable laws.
- b) Payment on account of amount admissible shall be made on the EIC certifying the sum to which the consultant is considered entitled by way of interim payment for the work executed, after deducting there from the amounts already paid if any, the security deposit and such other amounts as may be withheld/deductible or recoverable in terms of the Contract.
- c) In case of disputed items for which payment has been withheld, the EIC will intimate to the Consultant in writing the details of such disputed items. The Agency/firm shall submit in writing the clarifications / modifications in regard to these disputed items to the EIC. After receipt of such clarifications / modifications and acceptance thereof by the EIC payment on receipt of such disputed items shall be released within 30 days thereafter.

**6.0 COMPENSATION FOR DELAY:-**

- 6.1 If the Contractor fails to complete all items of work(s) in respect of any of Milestone and/or Work as a whole, as the case may be and as specified in SCC at Clause No. xiv(Section-VI) before the expiry of the period(s) of completion as stipulated at Sr.No. 1.2 of NIT or any extended period under Clause at Sr.No. 15.0 of GCC as may be allowed, he shall without prejudice to any other right or remedy of the Employer on account of such default, pay as an ascertained/agreed compensation (Liquidated Damages) not by way of penalty; such amount as stipulated in the aforesaid in SCC at Clause No. xiv(Section-VI).
- 6.2 The amount of Liquidated Damages /compensation may be adjusted/withheld/ deducted or set-off against any sum due or payable to the Contractor under this or any other contract with the Employer. The payment or deduction of such damages shall not relieve the Contractor from his obligation to complete the Works or from any other obligations and liabilities under the Contract
- 6.3 Should, however, the Contractor achieve the completion of the Works as a whole under the Contract within the time as stipulated at Sr.No. 1.2 or in the extended time as may be accorded, the Employer will refund to him the amount of compensation recovered from him, if any, in respect of delay in the non-completion of work(s) under the individual Milestone, as aforesaid in full. However, no interest on refund of amount of compensation as above shall be payable to the Contractor.
- 6.4 In case the compensation for delay (Liquidated Damages) are levied on account of delay in preceding Milestones and if contractor achieves the next milestone within the specified schedule (as mentioned in SCC at Clause No. xiv(Section-VI)) and also achieves all the delayed preceding Milestones by that date, then the compensation already levied for all delayed preceding Milestones shall be refunded in next payment. However, no interest on refund of delay damages as above shall be payable to the contractor.

## **7.0 CONTRACTOR'S DEFAULT/TERMINATION:-**

- (a) If the contractor shall neglect to execute the work with due diligence and expedition or shall refuse or neglect to comply with any reasonable order give to him in writing by the EIC in connection with the work or shall contravene the provisions of the contract , the Employer may give notice in writing to the contractor to make good the failure, neglect or contravention complained of , should the contractor fail to comply with the notice within seven (7) days from the date of service thereof, then and in such case the Employer shall terminate the contract and shall be at liberty to comply other contractor and forthwith execute such part of the work as the contractor may have neglected to do or if the Employer shall think fit, without prejudice to any other right he may have under the contract, to take the work wholly or in part out of the contractor's hands and re-contract with any other person or persons to complete the work or any part thereof and apply any balance payment which may otherwise be due on the contract by him to the contractor, or such part thereof as may be necessary, to the payment of the cost of executing the said part of the work or of completing the work as the case may be. If the cost of completing the work or executing a part thereof as aforesaid shall exceed the balance payment due to the contract, the contractor shall pay such excess. Such payment of excess amount shall be independent of the liquidated damages for delay, which the contractor shall have to pay if the completion of work is delayed and attributable to the contractor.
- (b) If the Consultants fail to remedy a failure in the performance of their obligations.
- (c) If the said Consultant becomes bankrupt or is dissolved, or ceases to exist or if the Consultant unreasonably delays in carrying out the work entrusted to it.
- (d) SAPDC also reserves the right to terminate the engagement of the Consultant at any time if it decides not to go ahead with the proposed Services. In case of any termination, the consultant will not be entitled to any payment other than for the milestone referred to in reporting requirements which has already been achieved.
- (e) SAPDC may give notice of termination, by not less than Seven (07) days' notice to the Consultants, to be given after the occurrence of any of the events or reason specified Under clause No. 7.0(GCC)
- (d) SAPDC, in its sole discretion and for any reason whatsoever, decide to terminate this Contract.
- (e) **Payment upon Termination:-**  
Upon termination of this Contract, SAPDC shall pay to the Consultants, the amount which shall have become due hereof for the Services satisfactorily performed prior to the effective date of termination;
- (f) The termination of the contract under this clause No. 7.0(GCC) shall not entitle the contractor to reduce the value of the contract performance security nor the time thereof. The Contract Performance Security shall be valid for the full value and for the full period or the completion of the Contract.

## **8.0 SUSPENSION OF WORK:-**

The SAPDC reserves the right to suspend and reinstate execution of the whole or any part of the works without invalidating the provisions of the contract. Orders for suspension or reinstatement of the works will be issued by SAPDC to the contractor in writing. The time for completion of the works will be extended for a period equal to the duration of the suspension.SAPDC shall not be responsible for any liabilities, if suspension or delay is due to some fault on the part of the contractor.

## **9.0 DEPLOYMENT OF LABOUR:-**

- i. The contractor will deploy regular/ skilled workmen with experience of such type of work.
- ii. All traveling expenses including provision of all necessary transport to & fro from site, lodging, allowances and other payment to the experts/workmen shall be the sole responsibility of the contractor.
- iii. The contractor will comply with all acts/laws and other statutory provisions rules, regulations and byelaws as are applicable or which might become applicable with regard to the performance of the work and the engagement of the experts/workers. Minimum wage as notified by the Govt. of Nepal and amended from time to time shall be ensured by the Contractor for different labour categories.
- iv. The rates shall remain firm during the execution of the contract. No escalation shall be paid.
- v. The contractor will be responsible for compensation payable arising out of accidents including payment to third party, if involved, no compensation in case of accident / damages or for death / injury to the experts/workmen will be paid by the SAPDC.

## **10.0 INSURANCE:-**

- 10.1 Neither party to the Contract shall be liable to the other in respect of any loss or damage which may occur or arise out of "Force Majeure" to the Works or any part thereof or to any material or article at site but not incorporated in the Works or to any person or anything or material whatsoever of either party provided such a loss or damage could not have been foreseen or avoided by a prudent person and the either party shall bear losses and damages in respect of their respective men and materials. Liability of either parties shall include claims/compensation of the third party also.
- 10.2 The Contractor shall indemnify and keep indemnified the Employer against all losses and claims for death, injuries or damage to any person or any property whatsoever which may arise out of or in consequence of the construction and maintenance of works during the Period for Completion for whole of the works and also against all claims, demands, proceedings, damages, costs, charges and expenses whatsoever in respect of or in relation thereto, and such liabilities shall include claims/compensations of the third party.

## **11.0 VAT/TAXES & DUTIES:-**

The quoted rates shall be inclusive of all taxes and duties, GST (if applicable), Custom (If applicable) etc. **but excluding VAT** and SAPDC shall not bear anything extra (**except VAT**) on this account. VAT as applicable shall be deposited/reimbursed by SAPDC on production of documentary evidence.

## **12.0 FORCE MAJEURE:-**

The term "Force Majeure" shall herein mean riots (other than among the Contractor's employees), Civil Commotion (to the extent not insurable), war (whether declared or not), invasion, act of foreign enemies, hostilities, civil war, rebellion, revolution, insurrection, military or usurped power, damage from aircraft, nuclear fission, acts of God, such as earthquake (above 7 magnitude on Richter Scale), lightning, unprecedented floods, fires not caused by Contractor's negligence and other such causes over which the Contractor has no control and are accepted as such by the Engineer-in-Charge, whose decision shall be final and binding. In the event of either party being rendered unable by Force Majeure to perform any obligation required to be performed by them under this contract, the relative obligation of the party affected by such Force Majeure shall be treated as suspended for the period during which such Force Majeure cause lasts, provided the party alleging that it has been rendered

unable as aforesaid, thereby shall notify within 10 days of the alleged beginning and ending thereof giving full particulars and satisfactory evidence in support of such cause.

Extension of time without levy of LD shall be provided during the period of occurrence of Force Majeure event, however no cost compensation shall be provided.

### **13.0 DEVIATIONS/VARIATION:-**

13.1 The Engineer-in-Charge shall have powers to make any deviations in the original works or any part thereof that are, in his opinion, necessary at the time of or during the course of execution of the Works. For the aforesaid purpose or for any other reason, if it shall, in the opinion of the Engineer-in-Charge, be desirable, he shall also have the powers to make Deviations, such as (i) Variations (ii) Extra (iii) Additions/Omissions and (iv) Alterations or Substitutions of any kind. No such Deviations, as aforesaid, shall in any way vitiate or invalidate the Contract and any such Deviations which the Contractor may be directed to do shall form integral part of the Contract as if originally provided therein and the Contractor shall carry out the same on the same terms & conditions in all respects on which he agreed to do the works under the contract subject to clause 13.2 (GCC) of the bid.

13.2 The rates for such items of work as are required to be executed due to Deviations, as stated in sub-clause 13.1(GCC) above shall be payable in the manner as stated hereunder:

- i) The rates already provided in the Bill of Quantities, shall apply in respect of the same item(s) of work to be executed due to Variation. However, the quoted rates shall hold good for all minus Variations.
- ii) In case of items for which rates are not available in the Bill of Quantities, the rates of such items as far as practicable, shall be derived from the quoted rates of analogous item(s) in the Bill of Quantities.
- iii) In the cases, where analogous items are not available in the Bill of Quantities, such items shall be termed as extra items and the rates for such items and also for items exceeding the prescribed limit as mentioned in clause 13.2 (i) (GCC) above, the Contractor, within 15 days (or as agreed by the EIC) of receipt of order to execute such items shall submit rate analysis to the Engineer-in-Charge supported by documentary evidence of basic rates adopted therein, notwithstanding the fact that the rates for such items exist in the Contract, having regard to the cost of materials (including transportation and taxes, levies if paid), actual wages for labour etc. as per standard norms or if standard norms are not specified/available then on the basis of labour/materials/equipment actually engaged for the particular work. In case rates are not available in above said system Engineer-in-Charge may finalize such rate(s) and rate so derived shall be binding on the Contractor.

Over and above the cost of labour, material arranged by the Contractor and ownership & operational cost of plant and machinery, an element of such percentage as 15 % shall be allowed to cover the Contractor's overheads, profits, and supervision charges.

The Engineer-in-Charge shall examine the rate analysis submitted by the Contractor and fix the rates accordingly whose decision shall be conclusive, final and binding on the Contractor.

13.3 If requested by the Contractor, the Time for Completion of the Works shall, in the event of any deviation resulting in additional cost over the Contract Price, be extended in the proportion which the altered, additional or substituted work bears to the original Contract Price plus such further additional time as may be considered reasonable by the Engineer-in-Charge.

13.4 Under no circumstances, the Contractor shall suspend the work on account of non-settlement of rates of such Deviated items.

13.5 Provided that no deviations instructed to be done by the Engineer – in – charge pursuant to Clause 13.1 shall be valid under Clause 13.2(GCC) unless within 15 days of the date of

such instruction before the commencement of execution of deviated items, notice shall have been given either ;

- a) By the Contractor to the Engineer – in – Charge of an intention to Claim extra payment or varied rate or price or
- b) By Engineer – in – Charge to the Contractor of his intention to vary a rate or price for the deviated items.

**14.0 FORECLOSURE OF CONTRACT IN FULL OR IN PART DUE TO ABANDONMENT OR REDUCTION IN SCOPE OF WORKS/SERVICES:-**

14.1 If at any time after acceptance of the tender the Employer decides to abandon or reduce the scope of the Works for reason whatsoever and hence does not require the whole or any part of the Works to be carried out, the Engineer-in-Charge shall give notice in writing to that effect to the Contractor, and the Contractor shall have no claim to any payment of compensation or otherwise whatsoever, on account of any profit or advantage which he might have derived from the execution of the Works in full but which he could not derive in consequence of the fore- closure of the whole or part of the Works.

The Contractor shall be paid at Contract rates for full amount of the Works executed at Site and, in addition, a mutually agreed reasonable amount as certified by the Engineer-in-Charge for the items hereunder mentioned which could not be utilized on the Works to the full extent because of the foreclosure:

- (a) Any expenditure incurred on preliminary works, e.g. temporary access roads, temporary labour huts, staff quarters and site office; storage accommodation workshop, installation and dismantling of Construction Equipment (batching plant, crushing plant) and water storage tanks.
- (b) (i) The Employer shall have the option to take over Contractor's materials or any part thereof, either brought to site or of which the Contractor is legally bound to accept delivery from suppliers (for incorporation in or incidental to the Work), provided, however, the Employer shall be bound to take over the material or such portions thereof as the Contractor does not desire to retain. The cost shall, however, take into account purchase price, cost of transportation and deterioration or damage which may have been caused to materials whilst in the custody of the Contractor.
- (ii) For Contractor's materials not retained by the Employer, reasonable cost of transporting such materials from Site to Contractor's permanent stores or to his other Works, whichever is less. If materials are not transported to either of the said places, no cost of transportation shall be payable.
- (c) If any materials issued by the Employer are rendered surplus, the same except normal wastage for the materials used in the works shall be returned by the Contractor to the Employer.
- (d) Reasonable compensation for transfer of T&P from Site to Contractor's permanent stores or to his other works whichever is less. If T&P are not transported to either of the said places, no cost of outward transportation shall be payable.

14.2 The Contractor shall, if required by the Engineer-in-Charge, furnish to him books of account, wage books, time sheets and other relevant documents as may be necessary to enable him to certify the reasonable amount payable under this condition.

14.3 In the event of foreclosure of the Contract, the advances released to the Contractor shall be recovered/adjusted by en-cashing Bank Guarantees (if applicable) submitted by the contractor against the advances, in appropriate proportion as due to the Employer.

## **15.0 TIME FOR COMPLETION AND EXTENSIONS:-**

15.1 Time for Completion allowed for execution of the Works is as specified at Sr.No. 1.2 of NIT of these conditions.

15.2 However, if the work is delayed on account of:

- i) Delay in handing over of site/Data/Design & Drawings/Document etc. to the Contractor; or
- ii) Increase in the quantity of work to be done under the Contract as per clause at Sr.No. 13.0 of GCC; or
- iii) Suspension of work as per clause at Sr.No. 8.0 of GCC; or
- iv) "Force Majeure" as per clause at Sr.No. 12.0 of GCC; or
- v) Any other cause which, in the opinion of the Engineer-in-Charge is beyond the Contractor's control;

then, immediately upon the happening of any such event as aforesaid, the Contractor shall inform the Engineer-in-Charge accordingly, but the Contractor shall nevertheless use constantly his best endeavors to prevent and/or make good the delay and shall do all that may be required in this regard. No extension in time on account of rains shall be admissible. The Contractor shall request, in writing, for extension of time, to which he may consider himself eligible under the Contract, within fourteen days of the date of happening of any such events as indicated above.

Provided further that no monetary claims shall be admissible to the Contractor for such Extension of Time for Completion.

15.3 In any such case as may have arisen due to any of the events, as aforesaid, and which shall be brought out by the Contractor in writing, the Engineer-in-Charge may give a fair and reasonable extension of Time for Completion, after taking into consideration the nature of the work delayed and practicability of its execution during the period of extension. Provided in the event of non-receipt of a request for such extensions from the Contractor for reasons whatsoever, the Engineer-in-Charge may, at his sole discretion and with due regard to the event, grant fair and reasonable extension of time sue motto.

Such extensions, if admissible, shall be communicated to the Contractor by the Engineer-in-Charge in writing.

Provided that Engineer-in-Charge is not bound to make any determination unless the Contractor has;

- a) within 14 days after such event has first arisen notified the Engineer and
- b) within 28 days or such other reasonable time as may be agreed by the Engineer-in-Charge detailed particulars of any extension of Time for Completion to which the Contractor may consider himself entitled.

## **16.0 CHANGES IN CONSTITUTION:-**

In case of any change of constitution of the Bidder/Firm/Agency/Consultant, the rights of SAPDC should not suffer.

## **17.0 SAFETY:-**

The Bidder shall have to ensure safety of all the manpower deployed by them while working. The Bidder shall provide & make all necessary gadgets/arrangements for safety of



his workmen. The Employer shall not, in any way be responsible for accident minor, major or fatal to any of his manpower or for any damage arising there from during the pendency of the contract, which shall be the sole responsibility of the Bidder. The insurance charges of the workmen shall be borne by the Bidder. Protective equipment like safety belt, safety shoes, safety helmets, gloves etc. shall be supplied by the Bidder to the manpower and shall be used particularly when working in electrically charged areas. Special precaution should be taken and/or EIC should be contacted before entering the electrically charged areas. The Bidder shall be responsible for safety of all workmen employed by him from time to time and shall be responsible for payment of compensation that may arise from time to time as a legal obligation or otherwise whatsoever it may be.

**19.0 SUBLETTING OF CONTRACT:-**

The Bidder/Contractor shall execute the work himself and no part of the contract shall be, without the prior consent in writing of the EIC or Employer, sublet or transfer other than for minor details, provided that any such consent shall not relieve the Bidder from any obligation, duty or responsibility under the Contract.

**20.0 SETTLEMENT OF DISPUTE:-**

20.1 A notice of the existence of any dispute or difference in connection with this Contract, shall be served by either party within 30 days from the date of existence of such dispute or difference or after the attempt by the parties to the Contract for amicable settlement as per **clause 20.2(GCC)** has failed, whichever is later, failing which all rights and claims under this Contract shall be deemed to have been forfeited and absolutely barred.

20.2 No dispute or difference arising between the parties relating to or in connection with the Contract shall be referred to arbitration unless an attempt has first been made to settle the same amicably.

**21.0 ARBITRATION:-**

In case of any dispute arising in out of above conditions, the matter will be initially referred to the sole arbitration nominated by CEO, SAPDC Limited. However, if dispute still remains unresolved then the dispute will be resolved as per applicable dispute resolving mechanism under Nepal's Arbitration Act. 2055. For un-resolved disputes, the Courts of Chainpur, Sankhuwasabha shall have the jurisdiction to adjudicate upon the matter.

**22.0 LAW GOVERNING CONTRACT:-**

Unless otherwise hereinafter provided, this Contract shall be construed, interpreted and governed by laws of Nepal. The laws applicable to the Contract shall be the laws in force in Nepal. Courts of Chainpur (Nepal) shall have exclusive Jurisdiction for adjudication upon the dispute arising out of the contract between the parties.

**23.0 CONTRACT MATTERS TO BE TREATED AS CONFIDENTIAL:-**

All documents, correspondence, decisions and orders concerning the Contract shall be considered as confidential and/or restricted in nature by the Bidder/Contractor and he shall not divulge or allow access to them by any unauthorized person.

## **SECTION-VI**

### **SPECIAL CONDITION OF CONTRACT(SCC)**

- i. No material and T&P will be issued by SAPDC.
- ii. **Requisite experience/qualification of contractor's personnel(s) who will be engaged for this assignment:-**
  - a. The consultant shall provide the details of following minimum key experts besides other team members for completing the Scope of Works/Services relating to the work:
  - b. Team Leader – The expert should have experience of at least one Consultancy Service of similar nature(i.e Study/Analysis of Tandem operations System in hydropower projects).
- iii. The Consultant shall provide/submit the details/profile as mentioned above of all team members which will be associated for the assignment to Engineer-In-Charge before start of work.
- iv. In case of substitution/replacement of team member(s) assigned for this assignment approval of EIC shall be required before doing the same.
- v. The contractor shall comply with all the prevailing laws and acts of Nepal, amended from time to time.
- vi. The bidder/Contractor shall be responsible for any work related accidents throughout the contract period.
- vii. All information and data generated or collected during the execution of the work shall be treated as confidential and shall be the sole property of Arun-3 HEP, SAPDC and the findings of the study shall not be shared or published without prior permission of Arun-3 HEP, SAPDC.
- viii. The experts/workmen to be engaged by the contractor shall have no right in any way for direct or indirect employment in SAPDC. During the currency of contract and after its expiry or termination no employee of the contractor who have ever worked on contract against this work will be offered direct or indirect employment of SAPDC.
- ix. The contractor shall be responsible to ensure all safety measures during the work, in case any mishap, the contractor shall have to bear all financial liability. SAPDC shall not bear any compensation or responsibility.
- x. The contractor shall be responsible for any damage resulting from his operations.
- xi. Time taken by SAPDC for review/comment on draft report at any stage are not accountable to contractor. However, contractor has to be present when required for clarifying any issues that may be raised.
- xii. If any additional study will be mandated/Required by SAPDC during the Study/Analysis then the same may be carried out by the contractor/agency.
- xiii. Indemnity:-Firm shall agree to indemnify and keep SAPDC indemnified at all times from and against all actions, claims, demands, proceedings, liabilities or judgements (Collectively "Claim") and any and all losses, damages, in or in relation to the Contract Agreement.

xiv. **Ref. Clause at Sr.No. 6.0 of GCC, Milestones:-**

<b>S. No.</b>	<b>Mile stone</b>	<b>Time period from commencement date</b>	<b>Compensation for delay</b>
1.	Submission of draft report as per scope work & Time Schedule	03 months to be reckoned from the date of issuance of Letter of Acceptance or Receipt of inputs(Design & Drawings) from SAPDC whichever is later.	0.069% of Contract Price per day of delay subject to a maximum of 2.5% of contract price. Applicable GST/VAT shall be charged extra.
2.	Submission of final report(After incorporation of comments/observation/suggestion of SAPDC) as per scope works/services & Time Schedule	06 months (For completion of activities at Sr. 1+ 2) to be reckoned from the date of issuance of Letter of Acceptance or Receipt of inputs(Design & Drawings) from SAPDC whichever is later.	0.14% of Contract Price per day of delay subject to a maximum of 5% of contract price. Applicable GST/VAT shall be charged extra.

Note: *Maximum amount of delay damages on account of work as a whole shall not exceed 5 % of Contract Price.*

**SECTION-VII**  
**BILL OF QUANTITIES(BOQ)**  
**(Price Schedule)**

## SCHEDULE-A (Bill of Quantity)

**Name of work: PCD-2/2021 " Hiring of Consultancy services for Hydraulic Transient Analysis study of Tandem Operating System (TOS) on Numerical Model and Proposing Regulation/Control Concept for TOS for Arun-3 HEP (900MW) and Lower Arun HEP (679 MW), Distt. Sankhuwasabha & Bhojpur, Nepal."**

Sr. No.	Description	Unit	Quantity	Rates may be filled in INR/ NPR or combination of both				Amount in INR (Figures)	Amount in NPR (Figures)	
				Unit rate Lumpsum (in INR) of all taxes and duties, GST (if applicable), Custom (If applicable) etc. <b>but Excluding VAT</b>		Unit rate Lumpsum (in NPR) of all taxes and duties, GST (if applicable), Custom (If applicable) etc. <b>but Excluding VAT</b>				
				Figures	Words	Figures	Words			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	9= (4)x(6)	(10) = (4)x(8)	
1	Consultancy Services for Hydraulic Transient Analysis / Study of Tandem Operating System (TOS) for Arun-3 HEP (900MW) and Lower Arun HEP (679 MW), Nepal on Numerical Model and Proposing Regulation / Control concept for TOS As per Detailed Scope of works/Services.	Job	1							
<b>Total = (9) + (10)</b>										
Discount if any in percentage (%)										

**Notes:**

- The quoted rates shall be inclusive of all taxes, duties, GST (if applicable), Custom (If applicable) etc. excluding VAT. VAT as applicable shall be deposited/reimbursed by SAPDC on production of documentary evidence. SAPDC shall not bear anything extra (except VAT) on this account.**

2. **The unit rates and prices can be quoted by the bidders either in NPR or in INR or combination of both. However, the total quoted amount shall be calculated by adding the amount quoted in INR and amount quoted in NPR. Currency chosen for the purpose of converting to a common currency shall be Nepalese Rupees (NPR) and for conversion from INR to NPR and vice versa, a factor of 1.6 will be considered.**
3. **Payment shall be made in the currency (INR/NPR) as quoted by the Bidder in BOQ.**

**Date:**

**For and on behalf of the Bidder**

**Place:**

**Signature of authorized representative of the Bidder,  
along with his name, Seal of Company)**